

NEW TAXA OF SOLANUM FROM PERU AND BOLIVIA

by C.Ochoa\*

SOLANUM TAPOJENSE Ochoa sp.nov.

Herbaceum, tuberiferum. Plantae 50-60 cm altae, caules simplici vel ramificati, ad basim 3-5 mm crassi, pilis perbrevis obsiti, subpigmentati, anguste alati, alae rectae, internodia 3-6 cm longa. Stolones plus quam 1 m longi, albidi, 1.5-2.0 mm crassi; tubercula 2-3 cm longa, rotunda vel ovalia, albido-flava. Folia imparipinnata 14.5-17.0 x 9.0-10.5 cm, 3-4-juga; foliola interjecta nulla vel raro 2-3 parva, membranacea. Folia obscura, supra pilis brevis obsita (rachis et foliola inclusa), subtus dilute viridia, pilis in venulas tantum obsita, folia novella densius pilis semper albidis obtecta, petiolus 2.5-3.0 cm longus. Foliolum terminale lateralibus primi jugis majus 5.0-7.0 x 2.4-3.8 cm elliptico-lanceolatum vel late elliptico-lanceolatum, apice obtuso vel subacuto, basi laeviter rotundatus vel attenuatus. Foliola lateralia ad basim gradatim minora, sessilia, foliola primi jugis 4.0-6.0 x 1.5-2.3 cm, aovato-elliptica vel anguste oblongo-lanceolata, apice obtusa, basi oblique rotundata, sessilia, et etiam latere basiscopico anguste decurrentia. Foliola ultimi jugis visibiliter minora. Foliola pseudostipulacea falcata 7.0-8.0 x 4.0-5.0 mm. Inflorescentia cymosa, 15-20 flora, pedunculus 8-10 cm longus, 1.5-2.0 mm crassus, tanquam pedicelli sparse pilosus, pedicelli prope calycem articulati, pedicellus superior 4 mm longus, inferior 15-20 mm longus. Calyx dense pilosus, subpigmentatus, 6.5-7.0 mm longus, lobi anguste elliptico-lanceolati, acuminibus 2-4 mm longis. Corolla rotata, parva, 2.5-2.8 cm diam., obscure violacea, stella viride-flava. Columna antherarum assymetrica, antherae anguste lanceolatae 0.5-5.5 mm longae, basi cordatae, filamenta alba, 1.0-1.5 mm longa, glabra, stylus 9 mm longus, 2.5-3.0 mm exsertus, supra basim ca. $\frac{1}{2}$  partis inferioris papillis brevibus obtectum. Stigma ovale.stili apice vix crassius. Baccae rotundatae vel ovales, virides, 10-12 mm longae. Numerus cromosomatum 2n=2x=24.

Peru: Dept. Puno, prov. Chucuito, inter Tapoje and Maucache; 3850 m.; inter saxa cum Stipa ichu, Astragalus sp., et Cajophora sp. crescit. Nomen vulg. Apharuma. Col.: C. Ochoa, n° 2789, marzo 1970.

Holotypus: Hb. OCH.

SOLANUM INFUNDIBULIFORME Phil. var. ALBIFLORUM Ochoa var.nov.

Herbaceum, tuberiferum. Plantae parvae 15.0-30.0 cm altae. Caules debiles, simplices aut ramificati, erecti, laete viridi 1.5-2.5 mm crassi, pilis brevibus, delicatis, sparse obsiti. Stolones 20-25 cm longi, tubercula albo-flava, rotundata usque ad ovalia, 8-10 mm longa. Folia late viridia 5.0-10.0 x 3.0-5.0 cm, imparipinnata, 2-3-juga, raro 4-juga, pilis delicatis, brevibus sparse obtecta; foliola interjecta deficiencia. Foliola lateralia ad basim gradatim

minora, elliptico-lanceolata, apice obtusa, latere basiscopico ample decurrentia. Foliolum terminale lateralibus mayus atque latius, 3.0-4.0 x 1.2-1.5 mm, anguste rhombo-lanceolatum, usque ad elliptico-lanceolatum, basi cuneatum, apice obtusum. Foliola primi jugis 1.5-2.5 x 0.7-0.9 cm. Foliola pseudostipulacea obliqua, elliptico-lanceolata aut late subfalcata 6.0-8.0 x 3.0-5.0 mm. Inflorescentia cymosa, 4-5-flora; pedunculi 3-4 cm longi, dense pilosi tamquam pedicelli et calyx; pedicelli ad 1/3 superior articulati, pedicellus superior 5 mm, inferior 12-15 mm longus. Calyx 6-7 mm longus, lobuli elliptici, in acumina 1.0-1.5 mm longa constricti. Corolla rotata 2.0-2.5 cm diam.; stella viride-flava aut flava. Columna antherarum subcylindrica, antherae lanceolatae 3.5-4.0 mm longae, basi cordatae, filamenta 0.5-0.8 mm longa, glabra. Stylus 7.0-7.5 mm longus, 1.5-2.0 mm exsertus, basi usque ad 1/2 papilis vestitus, stigma breviter capitatum. Ovarium globosum vel ovale. Numerus cromosomatum  $2n=2x=24$ .

Bolivia, Depto. de Potosí, Prov. Sud Chichas, Tajopunta, 4000 m Col. C. Ochoa, n° 11968, Martius 18, 1978. Holotypus Herbarium Ochoanum.

SOLANUM MICRODONTUM Bitt.var.MONTEPUNCOENSE Ochoa var.nov.

Herbaceum, tuberiferum. Plantae robustae, caules valde pigmentati, atropurpurei, conspicue alati. Stolones usque ad 2 m longi, tuberosa roseo-malvacea, verrucosa. Folia imparipinnata, 1-2-juga, foliolis supra pilis brevissimis dense praedita; foliolum terminale lateribus valde majus, late elliptico-lanceolatum, apice acuminatum; foliola lateralia, primaria anguste elliptico-lanceolata apice subacuminato vel acuminato, vel aliquando acuto, sessilia vel breviter petiolulata. Foliola pseudostipulacea manifeste parva. Inflorescentia cymosa, pedunculi breves, pedicelli ad 1/3 superum articulati; calyx pilis albidis brevibus atque subtilis sparsim obtectus; lobi anguste elliptico-lanceolati, acumina inaequalia, acuta et subspathulata. Corola rotata, atrorilacina ad violaceo pallida, acumina fere albida, lobi sine acumina 2 mm longi, acumen 4.5-5.0 mm longum. Stylus 11-12 mm longus, dimidium vel 1/3 inferius papillis obtectus. Stigma capitatum, styli apice vix crassius. Ovarium longum, conicum. Fructus ovato-conicus vel longo conicus, viridis, 2 cm longus, basim 1.4 cm crassus. Numerus cromosomatum  $2n=2x=24$ .

Bolivia: Depto. Cochabamba, Prov. Carrasco, inter vulgo Montepunco et Sehuencas ad 2500 m supra mare, in sylvis densis, inter frutices atque arbores, regio subtropica, humida; cum Capsicum sp., Solana non tuberifera floribus magnis albidis, crescit. Col.C.Ochoa, n° 12025; 26-III.-1978. Nomen vernaculum: Apharuma. Holotypus: Herbarium Ochoanum.

*SOLANUM ANDERSONII* (*Regmandra?*) Ochoa sp. nov.

Herbaceum, non tuberiferum. Plantae fruticosae, usque ad 1 m altae, caules fragiles ramosae, brunneae vel griseae, glabrae. Folia crassa ad extremum caulem disposita (Caules et rami pro parte majore nudi). Folia parva, dilute viridia, subvernica, lobata vel subpinnata, 3-4 lobi vel pinnae, supra glabra, in juventute pruinosae subtus paucis atque sparsis pilis obsitae, rhachis subtus ad medium pigmentatus. Inflorescentia cymosa, paniculata, 4-5 flora. Pedunculi 3-4 cm longi, virides vel leviter violaceo-pigmentati, pedicelli diluto viridi, 12-20 mm longi, articulatio basalis pigmentata. Calyx glaber, carnosus, 8-9 mm longus, viridis, leviter costillatus, in basi pigmentatus, lobuli fere basim versus partiti, lanceolati, apice 7 mm longo, obtusi. Corola lilacina, intus dilute lilacina, glabra, infundibuliforme, numquam plene aperta, numquam plene aperta quamobrem, rotata, petala valde apiculata, extus pilis brevibus sparsioribus obsita, stella obscure atroviolacea; antherae 5.5-6.0 mm longae, basi 1 mm latae, deorsum sine rima, poris terminalibus nullis, dehiscentia lateralis vel longitudinalis, dorso cremeas, latere ventrali brunneo-pigmentati, aperturae thecarum margines colore brunneo pigmentatae, antherae non in columnam dispositae, sed liberae erectae cum apicibus divergentes. Stylus 7-8 mm longus, glaber, viridis vel supra basim ca. 1/3 partis pigmentatus, stigma tetragonum, pallide viridum, 1.5 mm crassum; filamenta 4-5 mm longa, atro-violaceo pigmentata, graciles, glabra. Baccæ globosæ, laete virides, splendentes, 8-10 diam. Cromasomatum numerus  $2n=2x=24$ .

Peru: Departamenti Ica, Provinci Nazca, in vecinitis Marcona, 700 m supra mare. Collectum C.Ochoa n° 13026, Augustus 13, 1978.

Holotypus Herbarium Ochoanum. Illustrious botanici Dr. Gregory Anderson dicensata.

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